APRIL/MAY 2025

FSC61/CSC61 — OPEN SOURCE SOFTWARE

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

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1. Define open-source software.
2. What is the FOSS philosophy?
3. What is Intellectual Property Right (IPR)?
4. What are the basic principle of copyright law?
5. What is a bug database in open-source development?
6. What are the key steps to joining an existing open-source project?
7. What is Bash shell scripting?
8. What is the role of sed and gawk in shell scripting?

9. What is MySQL?

10. What is the purpose of the SELECT statement in MySQL?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Differentiate between open-source components and open-source tools.

Or

(b) What are the major advantages of using open-source software?

12. (a) Explain the BSD License and its applications.

Or

(b) What are the key provisions under the Academic Free License (AFL)?

13. (a) How does building a community help in open-source development? Briefly Discuss.

Or

(b) Explain the Software Development Life Cycle (SDLC) in open-source projects.

14. (a) Explain how to work with variables and user input in shell scripting.

Or

(b) Describe the process of handling signals.

15. (a) Explain the process of creating and managing MySQL tables.

Or

(b) Discuss the importance of the data and time functions in MySQL.

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the significance of open-source software in modern technology.

17. Elaborate the philosophy and purpose behind open-source licensing.

18. Analyze the factors contributing to the success of an open-source project.

19. Discuss the importance of signal handling is shell scripting.

20. Write a step-by guide to developing a web application using PHP and MySQL.

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